

CELEBRATING
20
years
EXCELLENCE



IPE DECK FLOORING

Inovar Floors India Private Limited (CIN: U26999MH2007PTC174873)

Inovar House, 67/458, Shree Gajanan CHS., Mhada Colony, Opp. Oberoi Mall, Off Film City Road, Malad (E), Mumbai – 400097.

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Why Inovar Ipe Decking?

Ipe wood decking is an extremely popular hardwood decking solution to provide a beautiful long lasting deck for your home. Ipe is extremely hard; therefore, Ipe decking will wear well and last a very long time. It is great in harsh environments like near the ocean or beach.

We can help you with everything you need to complete your Ipe Decking, including advice on installation, plugs, screws, and maintenance. We have a group of experts who can give advice on installing your Ipe decking and the type of wood drying needed in your area. Since wood is an organic product, you want to make sure you provide the proper spacing, drying, and ventilation for your Ipe wood. We want to make sure that our business relationship and your Ipe decking are both built to be long lasting.

What is Ipe Wood?

Ipe (spelled ipe and pronounced “ee-pay”), also called Brazilian walnut, is a beautiful exotic wood from South America. Ipe wood structures are hard, strong, and naturally resistant to rot, abrasion, weather, and insects. It is almost twice as dense as most woods and up to five times harder. It is medium to darker brown in color, like a mahogany, so not only lasts a long time but has the beauty of a fine interior wood. If Ipe lumber is allowed to patina, color can be brought back to its original shade with the use of a cleaner and brightener. Ipe wood lumber has become a very popular and inexpensive alternative to teak lumber.

How is it Used?

Ipe Wood Lumber is used for decking and other outdoor applications like furniture, siding, and fencing. It has an extremely long life in the outdoors. It can last up to 75 years and will last more than 40 years in almost all applications. That is 4-7 times as long as most pressure treated woods. If you want to build something to last for a long time, Ipe is an excellent choice.

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Pros & Cons?

Pros:

- Strong
- Hard
- Long lasting
- Smooth
- Ages gracefully
- Naturally fire and rot resistant
- insect resistant

Cons:

- Heavy
- Requires pre-drilling or hidden installation hardware

Where is it from?

Ipe comes from the Tabebuia Tree, which is native to the American tropics and subtropics from Mexico and the Caribbean to Argentina. The wood is sourced from a very large geographic area.

Part of the reason for woods toughness is the Tropical Environment that it exists in. It has natural hardness and oils that make it a naturally treated wood which will last a long time in all environments.

Ipe Decking Data Sheet

TABEBUIA SPP

Ipé, often called Brazilian walnut, is a beautiful exotic wood from South America. Typically used for decking and other outdoor applications, ipé structures are hard, strong, and naturally resistant to rot, abrasion and weather. It is almost twice as dense as most woods and up to five times harder. It is dark brown in color, like a mahogany, so not only lasts a long time but has the beauty of a fine interior wood. If ipé is allowed to age, color can be brought back to its original shade with the use of cleaners. Ipé has become a very popular and inexpensive alternative to teak when it comes to architectural, docks, and outdoor structures.

FAMILY

Bignoniaceae.

OTHER COMMON NAMES Brazilian Walnut and Lapacho. Trade names include Ironwood™ and Pau Lope™.

ORIGIN

Brazil, tropical South-Central America.

APPEARANCE

Heartwood ranges from olive brown to blackish, often with lighter or darker striping, often covered with a yellow powder; sharply demarcated from the whitish or yellowish sapwood. Left to nature, traditional weathering will change the ipé to a nice consistent light gray. Texture fine to medium; luster low to medium; grain straight to very irregular; rather oily looking; without distinctive odor or taste.

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DENSITY AND BUOYANCY

Janka hardness is 3680, making it very hard and durable, 185% harder than Red Oak (1210 Janka). Average weight is 72 lbs./cu. ft. Specific gravity is .92 so it sinks.

DRYING AND SHRINKAGE

Slight warping, cupping, twisting, and surface checking may occur during drying. Cut ends need to be resealed to prevent checking.

WORKABILITY

Ipé can be difficult to work with, especially with hand tools. It can have a blunting effect on cutting edges, so pre-drilling for nails and screws is recommended. It comes in good long lengths with limited warp. Planks do not bend well, but the wood finishes and sands quite smoothly, with no splintering. The fine yellow dust produced when working with Ipe may cause dermatitis in some people so please use proper PPE.

DURABILITY

This Brazilian species is one of the most stable of all the durable timbers. It can be used in ground contact without preservatives or additional treatments. Has a fire rating of Class A, the same as concrete or steel.

PRESERVATION

Heartwood is very resistant to attack by decay fungi and termites, but not resistant to marine borers, and has the durability and strength of teak. Ipé wood is very dense, making it extremely resistant to preservation treatments. USES Residential and commercial decking, boardwalks, piers, fencing, park benches, patio tiles, bridges, porch flooring and industrial flooring.

GENERAL CHARACTERISTICS

Pronounced e-pay, ipé is widely recognized as one of the hardest and most durable timber species in the world offers: • high density, which results in a high fire-resistance rating • natural resistance to rot and decay

Compare IPE Deck Flooring

WOOD TYPES	Hardness Janka Scale (lbs)	Bending Strength (psi)	Fire Rating	Decay Resistance	Life Span (years)	Appearance
IPÉ	3,680	22,560	High A	Highest rating for insect and termite resistance	30+	Also known as "Ironwood", is an extremely dense, tight grained. No splinters, surface stays smooth & resists damage.
Massaranduba	3,190	17,310	High A	Highest rating for insect and termite resistance.	25+	Also known as Brazilian Redwood, has a consistent reddish color with a fine straight grain and is nearly blemished free.
Teak	1,000	14,600	Medium B-C	Generally very resistant. Different grades will vary greatly	10-15	Very dense, straight-grained hardwood with a high natural oil content. Deep rich brown with some pieces displaying red and amber hues
Pressure Treated Pine	870	14,500	Varies	Chromated copper arsenate in wood offers excellent resistance, but with potential health and environmental risks.	10	Surface develops splits, checks, boards cup and twist, becomes rough & gray to green without regular sealing

The **Janka hardness** is a measurement of the force necessary to embed a .444-inch steel ball to half its diameter in wood, and is the industry standard for gauging a wood product's resistance to wear and denting.

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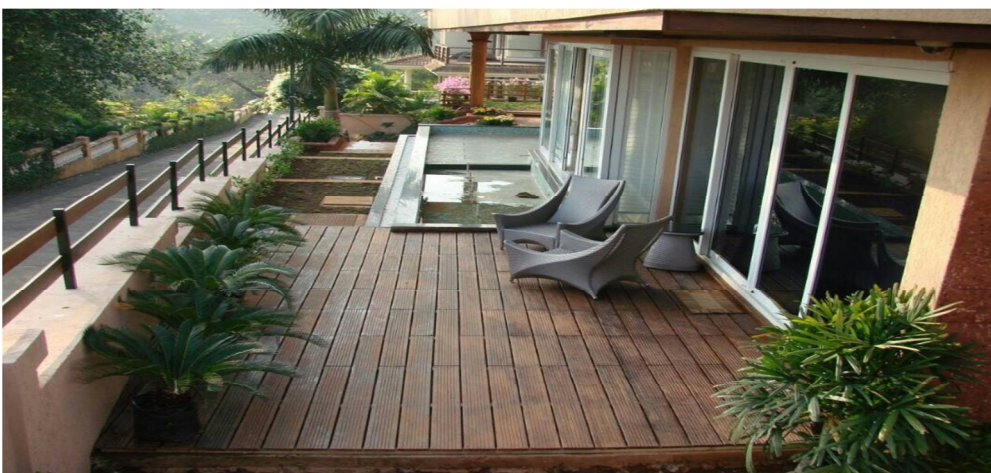
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Installation and maintenance guide

Inovar IPE Deck is easy to install. However handling and fitting techniques So please be sure to follow the instructions below carefully.

How to store the material at site?

- Do not lean Inovar IPE Deck Floor against wall instead keep it flat on the floor. It may deform if not placed flat.
- Powerful impact may cause crack or chip. Do not drop hard stuff, such as a hammer. Be careful with the impact when putting cut end on the floor.
- To store Inovar IPE deck maximum space between support blocks is 600mm.

Tooling: Inovar IPE deck can easily be worked with standard tools, and without generating splinters. Using carbon fibre wood saw blades, or even better, fine-toothed blades designed for cutting light metals will maximize the life of the cutting tools used, and improve the appearance of the cut edges.

Features-

- Weather resistant, Exceptional Density, Colour-fast and attractive for years to come.
- Easy to install and minimal maintenance.
- Suitable for any climate, and stunning look at both semi indoors and outdoor area like decking, pool surrounds, walkways etc.

Ground Preparation-

- The subfloor should be Hard (Concrete/ Tiled), Dry and levelled.
- The Area should have a proper slope and drainage point for the rain water to flow down.
- If the deck floor is to be flushed with stone or other adjacent flooring then the level difference should be checked.
- The deck floor cannot be installed directly on the subfloor without the joist framing.

Fixing the decking boards:

• A IPE Deck Flooring of high quality is always thoroughly dried at the time of manufacture. The result is that there will inevitably be some re-absorption of humidity (to the tune of a few percentage points) during the first few months following installation. The board will inevitably expand in length, thickness, and width.

• Boards can be installed so that either the gentle grooved side or the wide grooved side is seen, The wide grooved surface is easier to clean, and just as anti-slip as the gentle grooved side

- Once the board is in place, place the next board at an angle in order to slide it in under the clips. If necessary, use a rubber hammer to knock the board into place.
- Once all boards are fitted, check the expansion spaces and screw all the clips home taking care, meanwhile, not to pierce the clip itself (put the drill into loosest gear, and proceed at minimum speed). The screw head must on no account be screwed right down into the clip, but should remain flush with its sides.

• When positioning boards end-to-end, be sure to position them so the expansion gap between them is at the centre of the joist. Clips may be used at joins between boards, but they must be accurately centred. The screw head must be apparent in the middle of the end.

- When installing, make sure the board presses up against the side-wings, but without compressing them.
- A slope of 1% is recommended to enable water to run-off the boards freely. Ensuring this slope is maintained, and good ventilation, will prevent water stains from forming.

• Each board end must be supported by a joist, and must be secured with clips. If an overhang cannot be avoided, it should not exceed 5 cms

• Any board less than 50 cms long should be supported by an additional joist, centred between the two other joists, and held by clips.

• Diagonal installations (boards placed at 45°: avoid damaging the flange running along the lower edge of the groove so the board cannot lift of its own accord. It is vital to provide maximum support at the end of the board by doubling up on both joists and clips.

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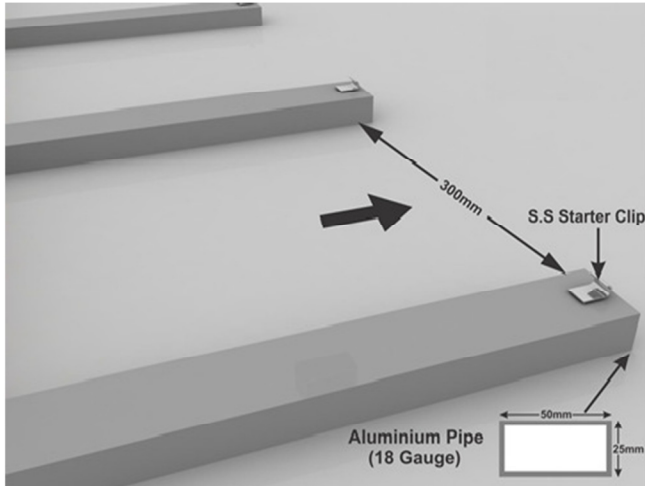
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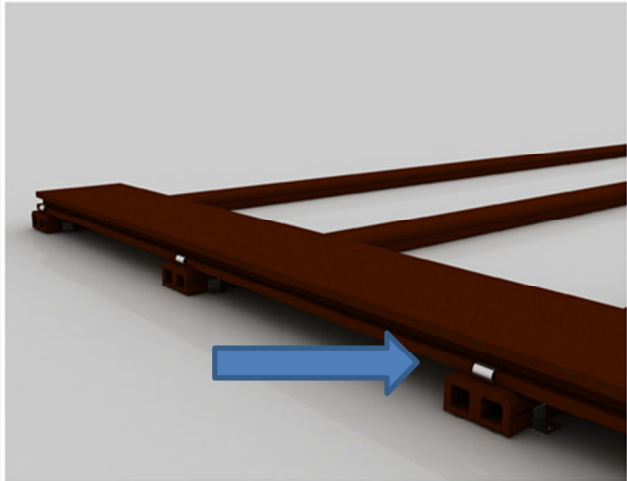
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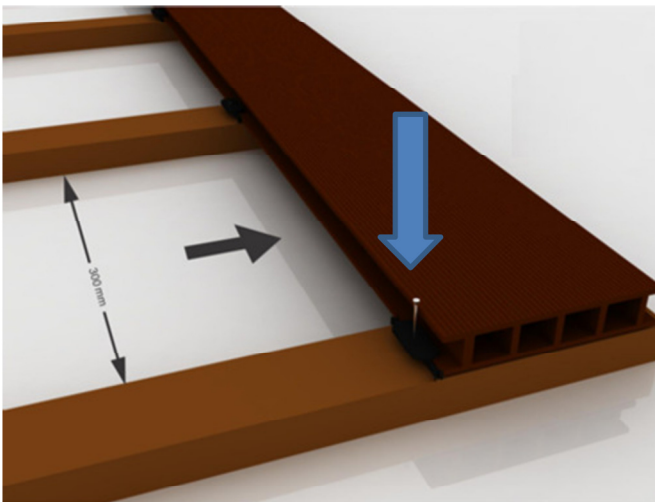
- Use Stainless starter clips at the start point and end point of the deck area in order to avoid deck board slipping from the joists.



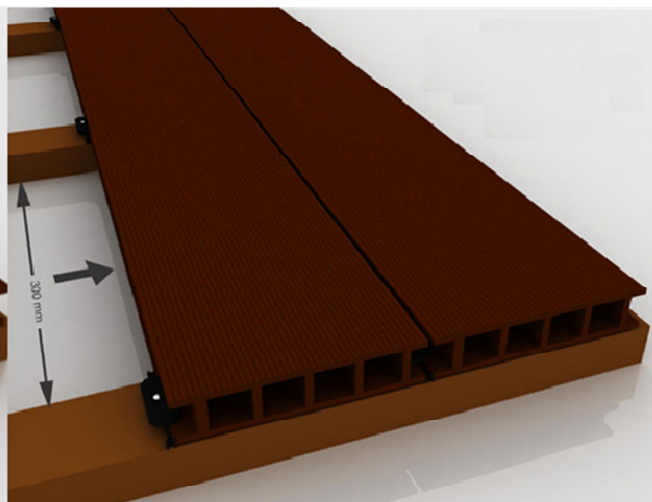
STEP 1



STEP 2



STEP 3



STEP 4

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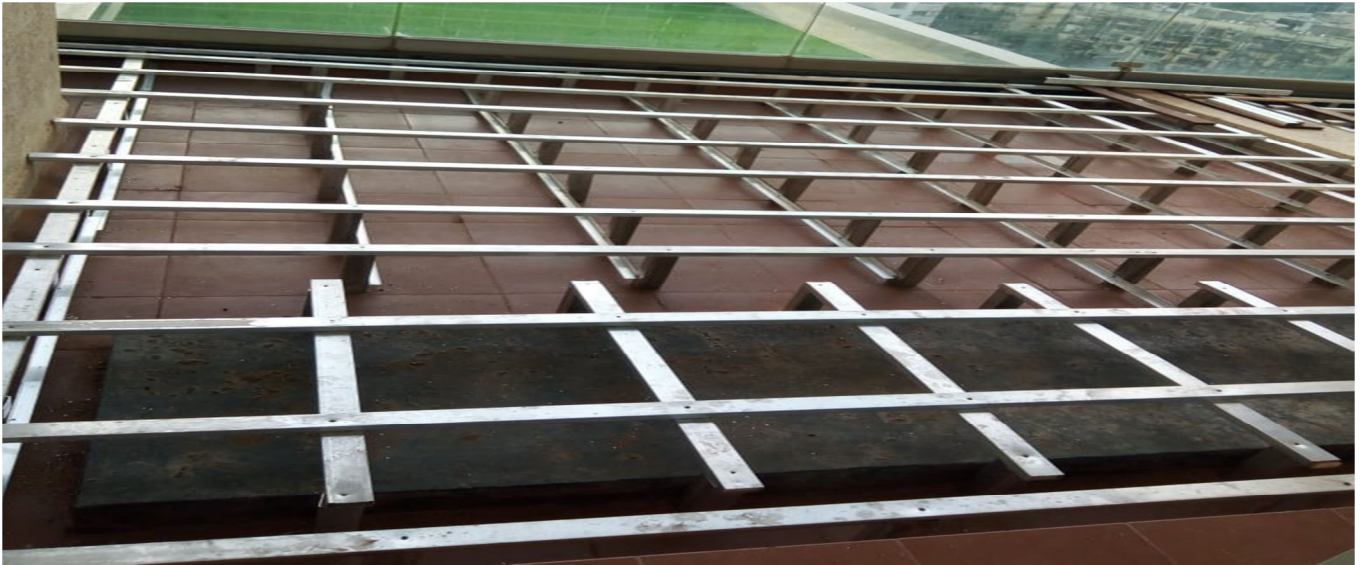
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CROSS SECTIONS FOR RAISED PATTERN TYPICAL DECK AREA.



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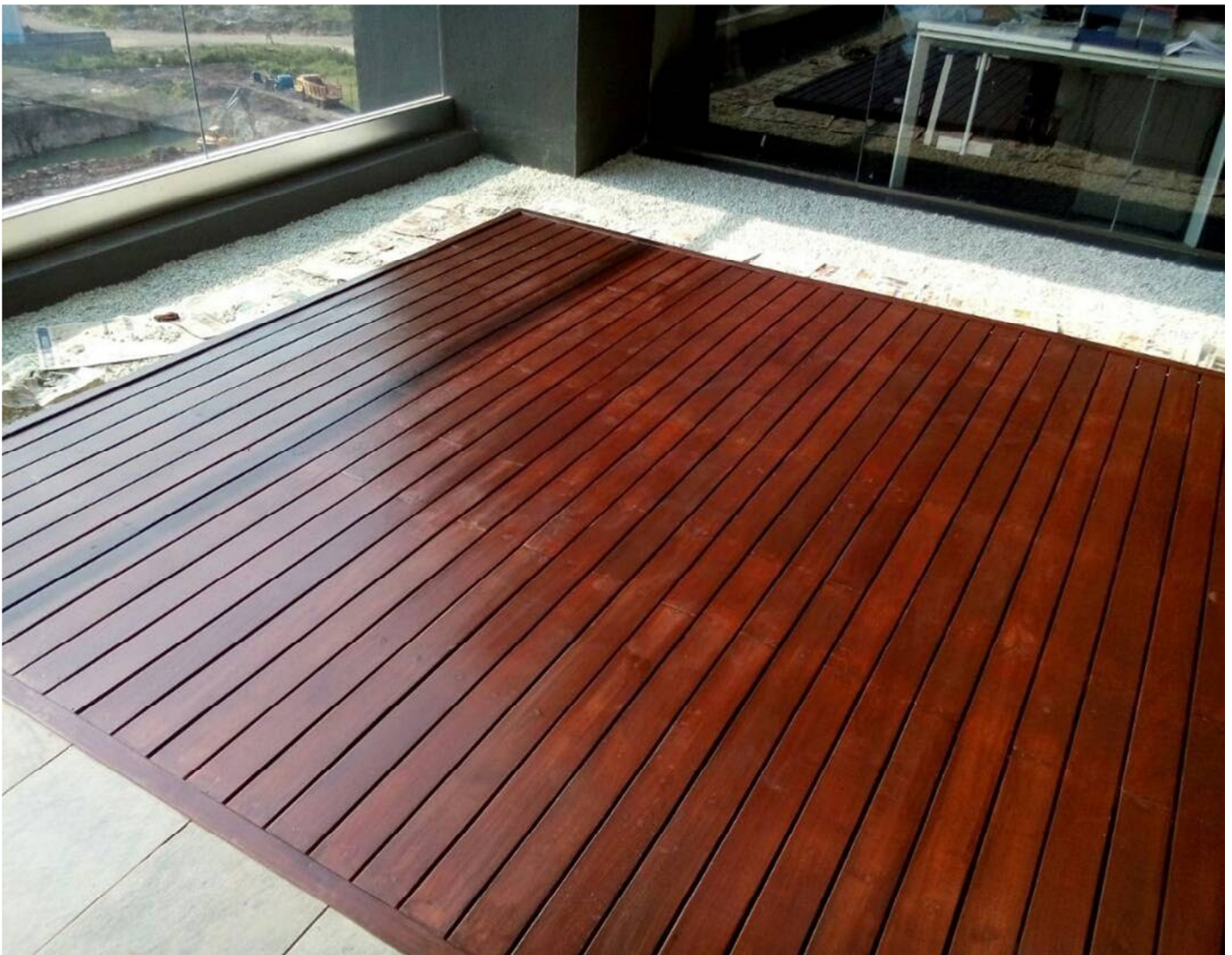
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Maintenance: All material tend to get effected by hash sun rays this effect is seen in any timber products, used externally.

The standard maintenance for outdoor timber deck is to give a light scrub with sand paper & apply a quote of linseed oil & wipe it off after 20 minutes & do repeat the quote & first quote absorbed after 8 hours & wipe the surface after 20 minutes. Excess oil if left on surface and if not wiped out will form thin film on the surface it difficult to walk. There are expensive imported deck oil with UV- inhibitors which can also be used. While we recommend an annual oiling before the starts of monsoons it is up to the customer to decide annual oiling to maintained the look.



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